

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Original Patent

Patentee: William Carl Slemmer

Patent No.: 5,781,043

Title: DIRECT CURRENT SUM BANDGAP
VOLTAGE COMPARATOR

Issued: July 14, 1998

Atty Dk No.: 93-C-007C2



Reissue Application

Applicant: William Carl Slemmer

Serial No.: 09/616,821

Title: DIRECT CURRENT SUM
BANDGAP VOLTAGE
COMPARATOR

Filing Date: July 14, 2000

Atty Dk No.: 93-C-007C2RE (1678-28)

FIRST REISSUE APPLICATION DECLARATION BY THE INVENTOR

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter that is claimed in patent number 5,781,043, granted July 14, 1998, and for which a reissue patent is sought on the invention entitled:

DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

the specification of which

- ☐ is attached hereto.
- ☒ was filed on July 14, 2000 as reissue application number 09/616,821 and was amended on _____ (if applicable). If the filing date, amendment date, or reissue application number are not included when I execute this Declaration, I authorize the below appointed attorney(s) and/or agents(s) to insert the filing date, amendment date, or reissue application number when they become available.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all that apply.)

- ☐ by reason of a defective specification or drawing.
- ☒ by reason of the patentee claiming less than he had the right to claim in the patent.
- ☐ by reason of other errors.

Errors upon which reissue is based are described as follows:

I believe that the limitation "K₁, K₂, and K₃, are constants determined by . . . a transistor length in the first, second, and third current sources, respectively" renders independent claims 1, 3, 13, and 14 overly narrow. Specifically, these constants may be determined by a size of the transistor other than the transistor, *i.e.*, channel, length. For example, one or more of K₁, K₂, and K₃ may be determined by the transistor, *i.e.*, channel, width. Therefore, I have added new independent claims 24 – 27, which omit the "transistor length" limitation.

Because one can describe my invention in terms of a method, I believe that the lack of method claims unduly limits the scope of protection that the '043 patent provides to my invention. Therefore, I have added new method claims 28 – 55.

All errors corrected in this reissue application arose without any deceptive intention on my part.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: LISA K. JORGENSEN, Reg. No. 34,845; THEODORE E. GALANTHAY, Reg. No. 24,122; ROBERT D. MCCUTCHEON, Reg. No. 38,717; MARIO DONATO, Reg. No. 37,816; and all attorneys associated with Customer Number 000996.

Correspondence Address: Direct all communications about the application to:

Lisa K. Jorgenson
STMicroelectronics, Inc.
1310 Electronics Drive
Carrollton, Texas 75006-5039
Phone: (972) 466-6000
Fax: (972) 466-7044

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or made the subject of an inventor's certificate issued prior to the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country more than one year prior to the filing date of the original U.S. application.

I do not know and do not believe that the claimed invention was ever in public use or on sale in the United States of America more than one year prior to the filing date of the original U.S. application.

I hereby claim the benefit of priority, under 35 U.S.C. § 119 and 35 U.S.C. § 120, of any foreign application(s) for patent or inventor's certificate on which priority was claimed in the above-identified issued patent.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon, or any patent to which this declaration is directed.

William Carl Slemmer
Full Name of Inventor

USA
Citizenship

203 Stone Hollow Ct. Prosper, TX 75078
Residence

Prosper, TX 75078
Post Office Address (if different from Residence)

William Carl Slemmer
Inventor's Signature

10/9/00
Date

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Applicant: William Carl Slemmer

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Filing Date: July 14, 2000

Atty Dk No.: 93-C-007RE (1678-28)

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited in the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Box MISSING PARTS, Washington, D.C. 20231, on this 3rd day of November, 2000.


Signature

ASSENT OF ASSIGNEE

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

STMicroelectronics, Inc. (formerly known as SGS-Thomson Microelectronics, Inc.), assignee of U.S. Patent No. 5,781,043, consents to the filing of reissue application No. 09/616,821 (or the present application, if filed with the initial application papers) for the reissue of U.S. Patent No. 5,781,043.

STMicroelectronics, Inc.



Lisa K. Jorgenson
Director of Intellectual Property
Assistant Secretary



CERTIFICATE UNDER 37 C.F.R. § 3.73(h)

Applicant: William Carl Slemmer

Reissue Application No.: 09/616,821

Filed:

July 14, 2000

For: DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

STMicroelectronics, Inc.

(Name of Assignee)

a corporation

(Type of Assignee, e.g., corporation,
partnership, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- A. ☒ An assignment from inventor of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 6561 Frame 034 (copy enclosed).
- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignees as shown below:
1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____
Frame _____ or for which a copy thereof is attached.
 2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____
Frame _____ or for which a copy thereof is attached.
 3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____
Frame _____ or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: November 3, 2000

Name: Lisa K. Jorgenson

Title: Director of Intellectual Property & Assistant Secretary

Signature: Lisa K. Jorgenson

RECORDATION FORM COVER SHEET

PATENTS ONLY

 U.S. Department of Commerce
 Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

 1. Name of conveying party(ies):
 William Carl Siemens

2. Name and address of receiving party(ies):

 Name: SGS-Thomson Microelectronics, Inc.

Internal Address:

 Additional name(s) of conveying parties attached? Yes ☒ No

 3. Nature of conveyance: 19
☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

 Execution Date: April 30, 1993

 Additional name(s) & address(es) attached? Yes ☒ No

4. Application number(s) or patent numbers(s):

 If this document is being filed together with a new application, the execution date of the application is: April 30, 1993

A. Patent Application No.(s)

 Attorney Docket No.
 93-C-07

B. Patent No.(s)

 Additional numbers attached: Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

 Name: Kenneth C. Hill

 Internal Address: Felsman, Bradley, Gunter & Dillon, LLP

 Street Address: 2607 Continental Plaza
777 Main Street

 City: Fort Worth State: Texas ZIP: 76102

 6. Total number of applications and patents involved 1

7. Total fee (37 CFR 1.21(h))

 \$ 40.00
☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

19-1353

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kenneth C. Hill

Name of Person Signing

090 BA 05/21/93 08056301

Signature

1 581

Total number of pages including cover sheet:

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Date

4/30/93
10

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Mail documents to be recorded with required cover sheet information to:

 Commissioner of Patents and Trademarks
 Box Assignments
 Washington, D.C. 20231

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REF 6561 RME034

PATENT ASSIGNMENT

WHEREAS, I, WILLIAM CARL SLEMMER, have invented new and useful improvements in a

DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

for which application was made for Letters Patent, said application being executed by us on the date of 30th day of April, 1993, and further being identified by Attorney Docket No. 93-C-07.

WHEREAS, SGS-THOMSON MICROELECTRONICS, INC., a corporation of the State of Delaware, having a correspondence address of 1310 Electronics Drive, Carrollton, Texas 75006, is desirous of acquiring my entire right, title and interest in said application and our Letters Patent which may issue thereon:

NOW THEREFORE, be it known by all whom it may concern that for and in consideration of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, I hereby assign to said corporation, both in and for the territory of the United States of America and the entire world our entire right, title and interest in and to said invention, patent application and any patent which may issue thereon, including all priority rights for patent applications foreign to the United States of America.

I HEREBY covenant and agree that I will at any time, upon the request and at the expense of said corporation, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention, applications and patents, and I authorize the Commissioner of Patents and Trademarks to issue Letters Patent to said corporation.

I HEREBY declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

IN TESTIMONY WHEREOF, I execute this assignment on the 30th day of April, 1993.


William Carl Slemmer

RECORDED
PATENT AND TRADEMARK
OFFICE

APR 30 1993

REC-6561 MAR 035